

Product Name : AY-9944

Synonyms : AY9944

Cat No. : M14261

CAS Number : 366-93-8

Molecular Formula : C₂₂H₂₈Cl₂N₂ · 2HCl

Formula Weight : 464.30

Chemical Name : trans-N,N-bis[2-Chlorophenylmethyl]-1,4-cyclohexanedimethanamine dihydrochloride

Description : AY-9944 is a cholesterol biosynthesis inhibitor that targets the 7-dehydro cholesterol Δ^7 -reductase (DHCR7) enzyme (IC₅₀=13 nM), attenuates of Smoothened-dependent and -independent Hh signaling; has been used to recapitulate phenotypes of Smith-Lemli-Opitz syndrome in animal model.

Pathway : GPCR/G Protein

Target : Hedgehog (Hh)

Receptor : Hedgehog (Hh)

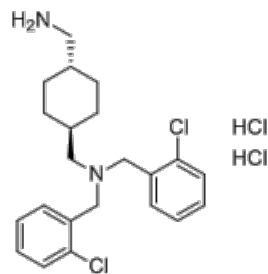
Solubility : —

SMILES : ClC1=CC=CC=C1CNC[C@H]2CC[C@H](CNCC3=CC=CC=C3Cl)CC2.Cl.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :



1. Horlick L. J Lipid Res. 1966 Jan;7(1):116-21. 2. Lauth M, et al. Mol Pharmacol. 2010 Sep;78(3):486-96. 3. Xu L, et al. J Lipid Res. 2011 Oct;52(10):1810-20.